

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:)		
)		
David BERMAN)		
)	Group Art Unit:	TBA
Serial No.: TBA)		
)		
Filed: October 31, 2003)	Examiner:	TBA
)		
For: MAGNETIC RECORDING)		
CHANNEL UTILIZING CONTROL)	Atty Dkt No.	ARC920030065US1
FIELDS FOR TIMING RECOVERY))		
EQUALIZATION, AMPLITUDE)		
AND AMPLITUDE ASYMMETRY))		

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

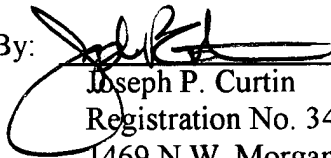
Sir:

Pursuant to 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. § 1.97(b), Applicants submit herewith a Form PTO-1449 listing patents and publications for consideration in connection with the above-identified application. A copy of each publication is provided herewith.

Applicants respectfully request that the Examiner consider and enter these documents into the file of the above-identified application. If any additional fee is deemed necessary, the Commissioner is authorized to charge Deposit Account No. 09-0441.

A general authorization under 37 C.F.R. § 1.25(b), second sentence, is hereby given to credit or debit Deposit Account No. 09-0441 for the instant filing and for any other fees during the pendency of this application under 37 C.F.R. §§ 1.16, 1.17 and 1.18.

Respectfully submitted,

By: 
Joseph P. Curtin
Registration No. 34,571
1469 N.W. Morgan Lane
Portland, Oregon 97229-5291
(503) 296-8373
(503) 297-0452 (facsimile)

Dated: October 31, 2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if KnownSheet 1 of 3

Application Number	TBA
Filing Date	October 31, 2003
First Named Inventor	David BERMAN
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	ARC920030065US1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 4,553,288	11-12-1985	Gerard et al.	
	2	US- 4,636,893	01-13-1987	McClure	
	3	US- 4,823,212	04-18-1989	Knowles et al.	
	4	US- 4,890,299	12-26-1989	Dolivo et al.	
	5	US- 4,912,585	03-27-1990	Belser et al.	
	6	US- 5,073,834	12-17-1991	Best et al.	
	7	US- 5,220,294	06-15-1993	Ichikawa	
	8	US- 5,258,933	11-02-1993	Johnson et al.	
	9	US- 5,359,631	10-25-1994	Behrens et al.	
	10	US- 5,375,145	12-20-1994	Abbott et al.	
	11	US- 5,438,460	08-01-1995	Coker et al.	
	12	US- 5,459,679	10-17-1995	Ziperovich	
	13	US- 5,587,223	12-24-1996	White	
	14	US- 5,680,267	10-21-1997	Tanaka et al.	
	15	US- 5,820,769	10-13-1998	Chou	
	16	US- 6,084,924	07-04-2000	Melas	
	17	US- 6,118,833	09-12-2000	Bergmans et al.	
	18	US- 6,351,339 B1	02-26-2002	Bar-Gadda	
	19	US- 6,391,430 B1	05-21-2002	Fullerton et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	20	JP11037975	02-12-1999	Masahiko et al		

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND**

T : Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Compleat If Known	
				Application Number	TBA
				Filing Date	October 31, 2003
				First Named Inventor	David BERMAN
				Art Unit	TBA
				Examiner Name	TBA
Sheet	3	of	3	Attorney Docket Number	ARC920030065US1

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	25	R.D. Cideciyan et al., "A PRML System for Digital Magnetic Recording," IEEE Journal On Selected Areas In Communications, Vol. 10, No. 1, January 1992, pp. 38-56.		
	26	F. Dolivo et al., "Fast Timing Recovery For Partial-Response Signaling Systems," CH2655-9/89/0000-0573, pp. 573-577.		
	27	W.C. Lindsey et al., "A Survey of Digital Phase-Locked Loops," Proceedings Of The IEEE, Vol. 69, No. 4, April 1981, pp. 410-431.		
	28	K.H. Mueller et al., "Timing Recovery in Digital Synchronous Data Receivers," IEEE Transactions On Communications, Vol. COM-24, No. 5, May 1976, pp. 516-531.		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, Washington, DC 20231.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	TBA
Filing Date	October 31, 2003
First Named Inventor	David BERMAN
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	ARC920030065US1

Sheet 2 of 3

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, Washington, DC 20231.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.